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CONFIRMATION NO. ATTORNEY DOCKET NO. FIRST NAMED INVENTOR APPLICATION NO. FILING DATE FIS920030121US1 1798 08/18/2003 Westerfield J. Ficken 10/604,799 EXAMINER 08/25/2004 32074 7590 INTERNATIONAL BUSINESS MACHINES CORPORATION COX, CASSANDRA F DEPT. 18G ART UNIT PAPER NUMBER BLDG. 300-482 2070 ROUTE 52 2816

DATE MAILED: 08/25/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

		Application	No.	Applicant(s)		
Office Action Summary		10/604,799	10/604,799		FICKEN ET AL.	
		Examiner		Art Unit		
		Cassandra	Cox	2816		
Period fo	The MAILING DATE of this communication ap	ppears on the c	over sheet with the o	correspondence ad	dress	
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ 2a)□ 3)□						
Disposition of Claims						
5)⊠ 6)⊠ 7)□	Claim(s) 1-34 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) 1-13 is/are allowed. Claim(s) 14-34 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.					
Applicat	ion Papers					
 9) ☐ The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 18 August 2003 is/are: a) ☐ accepted or b) ☑ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 						
Priority (under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) D Notic 3) Infon	et (s) See of References Cited (PTO-892) See of Draftsperson's Patent Drawing Review (PTO-948) See mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Ser No(s)/Mail Date <u>08/18/03, 09/22/03</u> .	18) 5) Interview Summary Paper No(s)/Mail Da) Notice of Informal P) Other:	ate)-152)	

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DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the 3rd charge pump and the 2nd comparator must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 14-34 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 14-34 are indefinite because it is not clear to the examiner if the detector and the threshold level generator are two separate elements or if they are the one element that has two separate functions. It appears to the examiner from review of the specification and the drawings that both elements refer to the level generator (202). Correction or clarification is required.

Allowable Subject Matter

4. Claims 1-13 are allowed.

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5. Claims 14 and 24 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

- 6. Claims 15-23 and 25-34 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 7. The following is an examiner's statement of reasons for allowance: Claims 1-13 are allowed because the closest prior art of record fails to disclose a circuit as shown in Figure 1B wherein the method of detecting loss of signal on a pair of differential signal lines comprises generating a signal level from the voltages on the pair of differential signal lines, the signal level being averaged over a first period of time (step 106); generating a reference level from the threshold level and the detected common mode level, the reference level being averaged over a second period of time longer than the first period of time; and comparing the signal level to the reference level to determine if a signal is present on the pair of signal lines in combination with the rest of the limitations of the base claims and any intervening claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cassandra Cox whose telephone number is 571-272-1741. The examiner can normally be reached on Monday-Thursday from 8:00 AM to 5:30 PM and on alternate Fridays from 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

April 23, 2004

TIMOTHY P. CALLAHAN
DERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800